

# Phoenix-Goodyear Airport: North Superfund Site Update

November 6, 2014

Community Advisory Group Quarterly Meeting Pebble Creek Community Goodyear, AZ

### **PGA-North Update**



- ROD Amendment signed by EPA on 9-30-14 (includes written responses to public comments)
- Source Area RD/RA Work Plan being prepared
- Recent/Upcoming Site Activities (Crane Co.):
  - NW System Expansion, addition of 2 injections wells:
    - Fulltime operation began in July 2014.
  - Enhancement of the Hydraulic Barrier:
    - Installation of Extraction Well EA-10 on Van Buren Street
    - Installation of Injection Well IA-09 to control SE portion of Subunit A groundwater plume
    - Expansion of the Main Treatment System (MTS) Additional TCE and perchlorate treatment.



## PGA-North Summary



- Drinking water is protected.
- Current cleanup has focused on plume containment and preventing spread of contamination to public water supply wells.
- Onsite contamination is being treated by the Soil Vapor Extraction (SVE) System.
- Groundwater investigation is ongoing and additional monitor wells are being installed to close data gaps and system performance monitoring.
- Treated groundwater is used for irrigation or injected to enhance plume containment and groundwater restoration.

## Next Steps



- Continued installation monitor wells to refine plume boundary in Subunit C (south of Interstate 10).
- Remedial Design for Source Area Treatment.
- MTS Expansion Work Plan:
  - Installation of extraction well EA-10, injection well
     IA-09, and associated pipelines.
  - Installation of additional treatment systems for TCE and perchlorate.
- Implement the Remedial Action for Source Area Treatment.

## Source Area Remedial Design/ Remedial Action

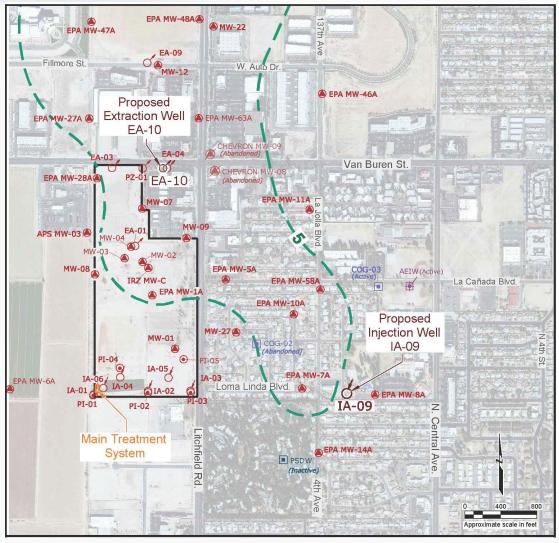


- Combination of In-Situ Treatment Technologies:
  - Zero-Valent Iron (ZVI)
  - Nano-scale Zero Valent Iron (nZVI)
  - Anaerobic Reductive Dechlorination (ARD)...bugs
- Enhance the hydraulic barrier at Van Buren Street
  - Ensure hydraulic control at Van Buren Street & Litchfield Road within Subunit A.
- Significantly Reduce TCE and perchlorate concentrations in Subunit A in the Source Area.
  - Reduce containment contributions to the downgradient plumes and the overall time frame for groundwater cleanup.

## Locations for Extraction Well EA-10 and Injection Well IA-09







### Source Area Treatment Zone





#### Legend:

EPA MW-55A 🌑

EA-07 O

EPA MW-48C

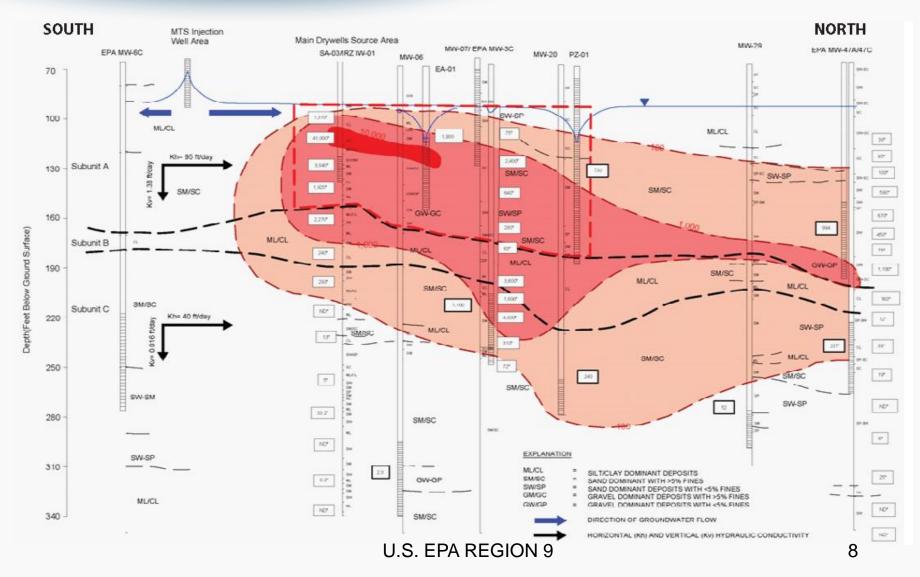
EPA MW-28M 🌖

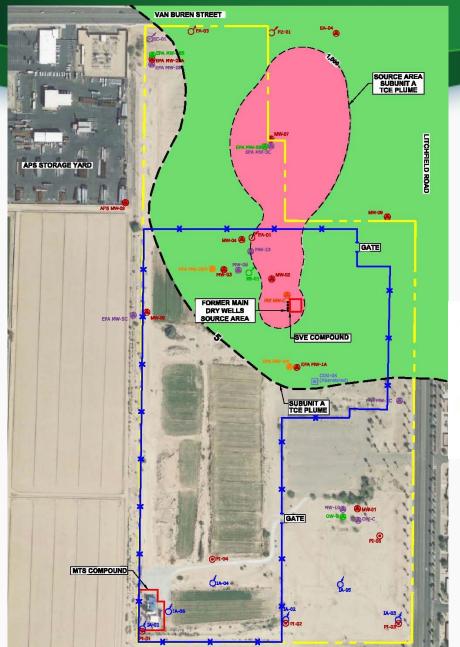
IRZ IW-01 O

Subunit A monitor well Subunit A extraction well Subunit C monitor well MAU monitor well Injection well (IRZ)

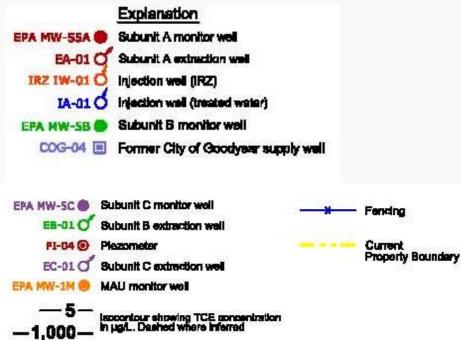
## Subunit A TCE Plume Cross-Section



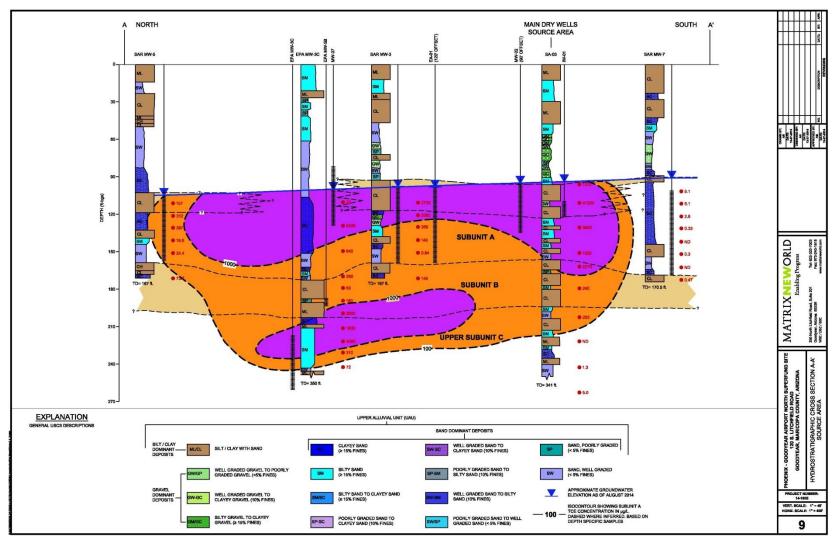












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